

## A B S T R A C T

A METHOD OF SYNTHESIZING NANOSCALE FILAMENTARY  
STRUCTURES, AND ELECTRONIC COMPONENTS COMPRISING SUCH  
5 STRUCTURES

A method of synthesizing electronic components  
incorporating nanoscale filamentary structures in which  
method a metallic catalyst (7) is deposited in a  
10 nanoporous membrane (3), the catalyst being adapted to  
penetrate in at least some of the pores (8) of the  
nanoporous membrane (3), and filamentary structures are  
grown on the catalyst in at least some of the pores (8)  
in the nanoporous membrane (3). The nanoporous membrane  
15 (3) is prepared in a manner suitable for ensuring that  
the wall of the pores (8) include a single-crystal zone,  
and at least part of the catalyst (7) is grown  
epitaxially on said single-crystal zone.

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Translation of the title and the abstract as they were when originally filed by the  
35 Applicant. No account has been taken of any changes that may have been made  
subsequently by the PCT Authorities acting ex officio, e.g. under PCT Rules 37.2,  
38.2, and/or 48.3.